



ISIS-5138.ST25.txt
SEQUENCE LISTING

<110> ~~Trade~~ Stanley T.
Lima, Walter F.
Wu, Hongjiang

<120> HUMAN RNASE H1 AND OLIGONUCLEOTIDE COMPOSITIONS THEREOF

<130> ISIS-5138

<140> US 10/616,009

<141> 2003-07-08

<150> US 09/409,926

<151> 1999-09-30

<160> 72

<170> PatentIn version 3.3

<210> 1

<211> 286

<212> PRT

<213> Human

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35 40 45

Gln Val Asp Arg Phe Pro Ala Ala Arg Phe Lys Lys Phe Ala Thr Glu
50 55 60

Asp Glu Ala Trp Ala Phe Val Arg Lys Ser Ala Ser Pro Glu Val Ser
65 70 75 80

Glu Gly His Glu Asn Gln His Gly Gln Glu Ser Glu Ala Lys Pro Gly
85 90 95

Lys Arg Leu Arg Glu Pro Leu Asp Gly Asp Gly His Glu Ser Ala Gln
100 105 110

Pro Tyr Ala Lys His Met Lys Pro Ser Val Glu Pro Ala Pro Pro Val
115 120 125

Ser Arg Asp Thr Phe Ser Tyr Met Gly Asp Phe Val Val Val Tyr Thr
130 135 140

Asp Gly Cys Cys Ser Ser Asn Gly Arg Arg Lys Pro Arg Ala Gly Ile
145 150 155 160

Gly Val Tyr Trp Gly Pro Gly His Pro Leu Asn Val Gly Ile Arg Leu
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170

175

Pro Gly Arg Gln Thr Asn Gln Arg Ala Glu Ile His Ala Ala Cys Lys
180 185 190

Ala Ile Glu Gln Ala Lys Thr Gln Asn Ile Asn Lys Leu Val Leu Tyr
195 200 205

Thr Asp Ser Met Phe Thr Ile Asn Gly Ile Thr Asn Trp Val Gln Gly
210 215 220

Trp Lys Lys Asn Gly Trp Lys Thr Ser Ala Gly Lys Glu Val Ile Asn
225 230 235 240

Lys Glu Asp Phe Val Ala Leu Glu Arg Leu Thr Gln Gly Met Asp Ile
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35 40 45

Ser Ala Ser Phe Lys Lys Phe Ala Thr Glu Lys Glu Ala Trp Ala Phe
50 55 60

Val Gly Ala Gly Pro Pro Asp Gly Gln Gln Ser Ala Pro Ala Glu Thr
65 70 75 80

His Gly Ala Ser Ala Val Ala Gln Glu Asn Ala Ser His Arg Glu Glu
85 90 95

Pro Glu Thr Asp Val Leu Cys Cys Asn Ala Cys Lys Arg Pro Tyr Glu
100 105 110

Gln Ser Thr Asn Glu Glu His Thr Val Arg Arg Ala Lys His Asp Glu
115 120 125

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Glu Gln Ser Thr Pro Val Val Ser Glu Ala Lys Phe Ser Tyr Met Gly
130 135 140

Glu Phe Ala Val Val Tyr Thr Asp Gly Cys Cys Ser Gly Asn Gly Arg
145 150 155 160

Asn Arg Ala Arg Ala Gly Ile Gly Val Tyr Trp Gly Pro Gly His Pro
165 170 175

Leu Asn Ile Ser Glu Arg Leu Pro Gly Arg Gln Thr Asn Gln Arg Ala
180 185 190

Glu Ile His Ala Ala Cys Lys Ala Ile Glu Gln Ala Lys Ser Gln Asn
195 200 205

Ile Lys Lys Leu Ile Ile Tyr Thr Asp Ser Lys Phe Thr Ile Asn Gly
210 215 220

Ile Thr Ser Trp Val Glu Asn Trp Lys Thr Asn Gly Trp Arg Thr Ser
225 230 235 240

Ser Gly Gly Ser Val Ile Asn Lys Glu Asp Phe Gln Lys Leu Asp Ser
245 250 255

Leu Ser Lys Gly Ile Glu Ile Gln Trp Met His Ile Pro Gly His Ala
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35 40 45

Phe Leu Gly Gln Pro Asn Thr Thr Ser Asn Tyr Gly Ser Ser Thr His
50 55 60

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Ala Gly Gly Gln Val Ser Lys Pro His Thr Thr Gln Lys Arg Val His
65 70 75 80

Arg Arg Asn Arg Pro Leu His Tyr Ser Ser Leu Thr Ser Ser Ser Ala
85 90 95

Cys Ser Ser Leu Ser Ser Ala Asn Thr Asn Thr Phe Tyr Ser Val Lys
100 105 110

Ser Asn Val Pro Asn Ile Glu Ser Lys Ile Phe Asn Asn Trp Lys Asp
115 120 125

Cys Gln Ala Tyr Val Lys His Lys Arg Gly Ile Thr Phe Lys Lys Phe
130 135 140

Glu Asp Gln Leu Ala Ala Glu Asn Phe Ile Ser Gly Met Ser Ala His
145 150 155 160

Asp Tyr Lys Leu Met Asn Ile Ser Lys Glu Ser Phe Glu Ser Lys Tyr
165 170 175

Lys Leu Ser Ser Asn Thr Met Tyr Asn Lys Ser Met Asn Val Tyr Cys
180 185 190

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195 200 205

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Glu Ala Leu Lys Lys Ile Trp Glu Lys Leu Thr Asn Glu Lys Glu Lys
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Val Asn Tyr Gln Ile Lys Thr Asp Ser Glu Tyr Val Thr Lys Leu Leu
260 265 270

Asn Asp Arg Tyr Met Thr Tyr Asp Asn Lys Lys Leu Glu Gly Leu Pro
275 280 285

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290 295 300

Lys Tyr Tyr Glu Leu Asn Lys Glu Cys Phe Lys Asn Asn Gly Lys Phe
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35 40 45

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50 55 60

Val Ile Leu Ser Thr Asp Ser Gln Tyr Val Arg Gln Gly Ile Thr Gln
65 70 75 80

Trp Ile His Asn Trp Lys Lys Arg Gly Trp Lys Thr Ala Asp Lys Lys
85 90 95

Pro Val Lys Asn Val Asp Leu Trp Gln Arg Leu Asp Ala Ala Leu Gly
100 105 110

Gln His Gln Ile Lys Trp Glu Trp Val Lys Gly His Ala Gly His Pro
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Phe Pro Ala Ala Arg Phe Lys Lys Phe Ala Thr Glu Asp Glu Ala Trp
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"

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Ala Phe Val Arg Ser Ser Ser Ser Pro Asp Gly Ser Lys Gly Gln Glu
50 55 60
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65 70 75 80
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Gly Ile Thr Asn Trp Val Gln Gly Trp Lys Lys Asn Gly Trp Arg Thr
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Ser Thr Gly Lys Asp Val Ile Asn Lys Glu Asp Phe Met Glu Leu Asp
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<222> (16)..(20)

<223> P=O

<220>

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<223> 2'-O-methoxyethyl

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20

<210> 53
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<400> 53
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23

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<400> 56
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19

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19

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<400> 61
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<400> 62
aacacgcccc ttgcccacca 20

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<400> 63
gccgucggug ugg 13

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gggcgccguc gguguggccc gcggcagcca cacc 34

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<400> 65
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<210> 66
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<400> 66
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<400> 67
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<400> 68
gggcgccguc ggugugg 17

<210> 69
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<400> 69
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<210> 70
<211> 17
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<400> 70
gggcgccguc ggugugg 17

<210> 71
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<400> 71
gggcgccguc ggugugg 17

<210> 72
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<212> RNA
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<400> 72
cgcgaaucg cg

12